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Applicant(s)	Cook, et al.
Art Unit	3672
Examiner Name	Unknown

Attorney Docket Number 25791.76

FOREIGN PATENT DOCUMENTS

Examiner's Initials	Cite No.	Foreign Patent Document (Country or Office Number - Kind)	Publication Date MM-CO-YYYY	Patentee or Applicant of Cited Document	Translation ✓/X
B1	2,391,033B		03-31-2004	Great Britain	No
B2	2,390,387B		04-07-2004	Great Britain	No
B3	2,391,575B		05-19-2004	Great Britain	No
B4	2,392,686B		04-28-2004	Great Britain	No
B5	2,392,691B		04-28-2004	Great Britain	No
B6	0,084,940 A1		06-03-1983	EPO	No
B7	11-169975		06-29-1999	Japan	No
B8	2001-47161		02-20-2001	Japan	Yes
B9	WO03/004819 A3		01-16-2003	PCT-US	No
B10	WO03/004820 A2		01-16-2003	PCT-US	No
B11	WO03/004820 A3		01-16-2003	PCT-US	No
B12	WO03/023179 A3		03-20-2003	PCT-US	No
B13	WO03/042486 A3		05-22-2003	PCT-US	No
B14	WO03/042489 A2		05-22-2003	PCT-US	No
B15	WO03/064813 A1		08-07-2003	PCT-GB	No
B16	WO03/071086 A2		08-28-2003	PCT-US	No
B17	WO03/078785 A2		09-25-2003	PCT-US	No
B18	WO03/086675 A2		10-23-2003	PCT-US	No
B19	WO03/089161 A2		10-30-2003	PCT-US	No
B20	WO03/089161 A3		10-30-2003	PCT-US	No
B21	WO03/093623 A2		11-13-2003	PCT-US	No
B22	WO03/102365 A1		12-11-2003	PCT-US	No
B23	WO03/102365 A1	(Amended)	12-11-2003	PCT-US	No
B24	WO03/104601 A2		12-18-2003	PCT-US	No
B25	WO03/106130 A2		12-24-2003	PCT-US	No
B26	WO04/003337 A1		01-08-2004	PCT-US	No
B27	WO04/009950 A1		01-29-2004	PCT-US	No
B28	WO04/010039 A2		01-29-2004	PCT-US	No
B29	WO04/011776 A2		02-05-2004	PCT-US	No
B30	WO04/018823 A2		03-04-2004	PCT-US	No
B31	WO04/018824 A2		03-04-2004	PCT-US	No
B32	WO04/020895 A2		03-11-2004	PCT-US	No
B33	WO04/020895 A3		03-11-2004	PCT-US	No
B34	WO04/023014 A2		03-18-2004	PCT-US	No
B35	WO04/026017 A2		04-01-2004	PCT-US	No
B36	WO04/026073 A2		04-01-2004	PCT-US	No
B37	WO04/026500 A2		04-01-2004	PCT-US	No
B38	WO04/027200 A2		04-01-2004	PCT-US	No
B39	WO04/027204 A2		04-01-2004	PCT-US	No
B40	WO04/027205 A2		04-01-2004	PCT-US	No
B41	WO04/027392 A1		04-01-2004	PCT-US	No
B42	WO04/027786 A2		04-01-2004	PCT-US	No

OTHER PRIOR ART

Examiner's Initials	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article, title of the item, date, page(s), volume-issue number(s), publisher, city/country where published
C1		Power Ultrasonics, "Design and Optimisation of an Ultrasonic Die System For Form" Chris Cheers (1999, 2000)
C2		Research Area - Sheet Metal Forming - Superposition of Vibra; Fraunhofer IWU (2001)

C3	Research Projects," Analysis of Metal Sheet Formability and It's Factors of Influence" Prof. Dorel Banabic (2003)
C4	www.materialsresources.com, "Low Temperature Bonding of Dissimilar and Hard-to-Bond Materials and Metal-Including..." (2004)
C5	www.tribtech.com, "Trib-gel A Chemical Cold Welding Agent" G R Linzell (Sept. 14, 1999)
C6	www.spurind.com, "Galvanic Protection, Metallurgical Bonds, Custom Fabrication – Spur Industries" (2000)
C7	Lubrication Engineering, "Effect of Micro-Surface Texturing on Breakaway Torque and Blister Formation on Carbon-Graphite Faces in a Mechanical Seal" Philip Guichelaar, Karalyn Folkert, Izhak Elsion, Steven Pride (August 2002)
C8	Surface Technologies Inc., "Improving Tribological Performance of Mechanical Seats by Laser Surface Texturing" Izhak Elsion
C9	Tribology Transactions "Experimental Investigation of Laser Surface Texturing for Reciprocating Automotive Components" G Ryk, Y Klingerman and I Elsion (2002)
C10	Proceeding of the International Tribology Conference, "Microtexturing of Functional Surfaces for Improving Their Tribological Performance" Henry Haefke, Yvonne Gerbig, Gabriel Dumitru and Valerio Romano (2002)
C11	Sealing Technology, "A laser surface textured hydrostatic mechanical seal" Izhak Elsion and Gregory Halperin (March 2003)
C12	Metaforming Online, "Advanced Laser Texturing Tames Tough Tasks" Harvey Arbuckle
C13	Tribology Transactions, "A Laser Surface Textured Parallel Thrust Bearing" V. Brizmer, Y. Klingerman and I. Elsion (March 2003)
C14	PT Design, "Scratching the Surface" Todd E. Lizzoti (June 1999)
C15	Tribology Transactions, "Friction-Reducing Surface-Texturing in Reciprocating Automotive Components" Aviram Ronen, and Izhak Elsion (2001)
C16	Michigan Metrology "3D Surface Finish Roughness Texture Wear WYKO Vecco" C.A. Brown, PhD; Charles, W.A. Johnsen, S. Chester
C17	International Search Report, Application PCT/US02/00677, February 24, 2004 (Atty Docket No. 25791.51.02)
C18	International Search Report, Application PCT/US02/20477; October 31, 2003 (Atty Docket No. 25791.44.02)
C19	International Search Report, Application PCT/US02/20477; April 6, 2004 (Atty Docket No. 25791.44.02)
C20	International Search Report, Application PCT/US02/24399; February 27, 2004 (Atty Docket No. 25791.59.02)
C21	International Search Report, Application PCT/US02/25608; May 24, 2004 (Atty Docket No. 25791.58.02)
C22	International Search Report, Application PCT/US02/25727; February 19, 2004 (Atty Docket No. 25791.67.03)
C23	International Search Report, Application PCT/US02/29856; Dec. 16, 2002 (Atty Docket No. 25791.60.02)
C24	International Search Report, Application PCT/US02/36157; September 29, 2003 (Atty Docket No. 25791.87.02)
C25	International Search Report, Application PCT/US02/36157; April 14, 2004 (Atty Docket No. 25791.87.02)
C26	International Search Report, Application PCT/US02/36267; May 21, 2004 (Atty Docket No. 25791.88.02)
C27	International Search Report, Application PCT/US02/39418, March 24, 2003 (Atty Docket No. 25791.91.02)
C28	International Search Report, Application PCT/US02/39425, May 28, 2004 (Atty Docket No. 25791.68.02)
C29	International Search Report, Application PCT/US03/00609, May 20, 2004 (Atty Docket No. 25791.71.02)
C30	International Search Report, Application PCT/US03/04837, May 28, 2004 (Atty Docket No. 25791.95.02)
C31	International Search Report, Application PCT/US03/06544, June 9, 2004 (Atty Docket No. 25791.93.02)
C32	International Search Report, Application PCT/US03/10144; October 31, 2003 (Atty Docket No. 25791.101.02)
C33	International Search Report, Application PCT/US03/11765; November 13, 2003 (Atty Docket No. 25791.89.02)
C34	International Search Report, Application PCT/US03/13787; May 28, 2004 (Atty Docket No. 25791.107.02)
C35	International Search Report, Application PCT/US03/14153; May 28, 2004 (Atty Docket No. 25791.104.02)
C36	International Search Report, Application PCT/US03/15020; July 30, 2003 (Atty Docket No. 25791.90.02)
C37	International Search Report, Application PCT/US03/19993; May 24, 2004(Atty Docket No. 25791.106.02)
C38	International Search Report, Application PCT/US03/20694; November 12, 2003 (Atty Docket No. 25791.110.02)
C39	International Search Report, Application PCT/US03/20870; May 24, 2004 (Atty Docket No. 25791.111.02)
C40	International Search Report, Application PCT/US03/24779; March 3, 2004 (Atty Docket No. 25791.125.02)
C41	International Search Report, Application PCT/US03/25675; May 25, 2004 (Atty Docket No. 25791.121.02)
C42	International Search Report, Application PCT/US03/25676; May 17, 2004 (Atty Docket No. 25791.120.02)
C43	International Search Report, Application PCT/US03/25677; May 21, 2004(Atty Docket No. 25791.119.02)
C44	International Search Report, Application PCT/US03/25715; April 9, 2004 (Atty Docket No. 25791.)
C45	International Search Report, Application PCT/US03/25742; May 27, 2004(Atty Docket No. 25791.117.02)
C46	International Search Report, Application PCT/US03/29460; May 25, 2004 (Atty Docket No. 25791.114.02)
C47	International Search Report, Application PCT/US03/25667; February 26, 2004 (Atty Docket No. 25791.118.02)
C48	International Search Report, Application PCT/US03/29859; May 21, 2004 (Atty Docket No. 25791.102.02)
C49	International Search Report, Application PCT/US03/38550; June 15, 2004 (Atty Docket No. 25791.157.02)
C50	Search and Examination Report to Application No. GB 0004282.0, June 3, 2003 (Atty Docket No. 25791.7.07)
C51	Search Report to Application No. GB 0004285.3, July 12, 2000
C52	Search Report to Application No. GB 0004285.3, January 19, 2001
C53	Examination Report to Application No. GB 0005399.1; July 24, 2000
C54	Examination Report to Application No. GB 0005399.1; October 14, 2002
C55	Examination Report to Application No. GB 0013661.4, November 25 2003 (Atty Docket No. 25791.17.09)

C56	Search Report to Application No. GB 0013661.4, October 20, 2003 (Atty Docket No. 25791.17.09)
C57	Examination Report to Application No. GB 0208367.3, November 4 2003 (Atty Docket No. 25791.36.04)
C58	Examination Report to Application No. GB 0208367.3, November 17, 2003 (Atty Docket No. 25791.36.04)
C59	Examination Report to Application No. GB 0208367.3, January 30 2004 (Atty Docket No. 25791.36.04)
C60	Examination Report to Application No. GB 0216409.3, February 9, 2004 (Atty Docket No. 25791.10.08)
C61	Examination Report to Application No. GB 0219757.2, May 10, 2004
C62	Examination Report to Application No. GB 0300085.8, November 28, 2003 (Atty Docket No. 25791.46.06)
C63	Examination Report to Application No. GB 030086.8, December 1, 2003 (Atty Docket No. 25791.45.06)
C64	Search and Examination Report to Application No. GB 0308293.0, July 14, 2003 (Atty Docket No. 25791.7.12)
C65	Search and Examination Report to Application No. GB 0308294.8, July 14 2003 (Atty Docket No. 25791.7.13)
C66	Search and Examination Report to Application No. GB 0308295.5, JULY 14, 2003 (Atty Docket No. 25791.7.11)
C67	Search and Examination Report to Application No. GB 0308296.3, July 14, 2003 (Atty Docket No. 25791.7.09)
C68	Search and Examination Report to Application No. GB 0308297.1, July 2003 (Atty Docket No. 25791.7.10)
C69	Search and Examination Report to Application No. GB 0308303.7, July 14, 2003 (Atty Docket No. 25791.7.14)
C70	Examination Report to Application No. GB 0311596.1, May 18, 2004 (Atty Docket No. 25791.52.05)
C71	Search and Examination Report to Application No. GB 0313406.1, September 3, 2003 (Atty Docket No. 25791.23.08)
C72	Search and Examination Report to Application No. GB 0316883.8, November 25, 2003 (Atty Docket No. 25791.17.13)
C73	Search and Examination Report to Application No. GB 0316886.1, November 25, 2003 (Atty Docket No. 25791.17.11)
C74	Search and Examination Report to Application No. GB 0316887.9, November 25, 2003 (Atty Docket No. 25791.17.12)
C75	Search and Examination Report to Application No. GB 0318545.1, September 3, 2003 (Atty Docket No. 25791.23.10)
C76	Search and Examination Report to Application No. GB 0318547.4; September 3, 2003 (Atty Docket No. 25791.23.11)
C77	Search and Examination Report to Application No. GB 0318549.3; September 3, 2003 (Atty Docket No. 25791.23.12)
C78	Search and Examination Report to Application No. GB 0318550.1, September 3, 2003 (Atty Docket No. 25791.23.09)
C79	Search and Examination Report to Application No. GB 0320579.6, December 16, 2003 (Atty Docket No. 25791.25.10)
C80	Search and Examination Report to Application No. GB 0320580.4, December 17, 2003 (Atty Docket No. 25791.25.09)
C81	Examination Report to Application No. GB 0320747.9, May 25, 2004 (Atty Docket No. 25791.50.05)
C82	Search and Examination Report to Application No. GB 0323891.2, December 19, 2003 (Atty Docket No. 25791.25.11)
C83	Search and Examination Report to Application No. GB 0324172.6, November 4, 2003 (Atty Docket No. 25791.27.09)
C84	Search and Examination Report to Application No. GB 0324174.2, November 4, 2003 (Atty Docket No. 25791.27.10)
C85	Search and Examination Report to Application No. GB 0325071.9, November 18, 2003 (Atty Docket No. 25791.36.08)
C86	Examination Report to Application No. GB 0325071.9, February 2, 2004 (Atty Docket No. 25791.36.08)
C87	Examination Report to Application No. GB 0325072.7, February 5, 2004 (Atty Docket No. 25791.36.09)
C88	Search and Examination Report to Application No. GB 0325072.7; December 3, 2003 (Atty Docket No. 25791.36.09)
C89	Examination Report to Application No. GB 0325072.7; April 13, 2004 (Atty Docket No. 25791.36.09)
C90	Examination Report to Application No. GB 0404796.5, May 20, 2004 (Atty Docket No. 25791.59.04)
C91	Search and Examination Report to Application No. GB 0404826.0, April 21, 2004 (Atty Docket No. 25791.)
C92	Search and Examination Report to Application No. GB 0404826.6, April 21, 2004 (Atty Docket No. 25791.)
C93	Search and Examination Report to Application No. GB 0404830.2, April 21, 2004 (Atty Docket No. 25791.)
C94	Search and Examination Report to Application No. GB 0404832.8, April 21, 2004 (Atty Docket No. 25791.)
C95	Search and Examination Report to Application No. GB 0404833.6, April 21, 2004 (Atty Docket No. 25791.)
C96	Search and Examination Report to Application No. GB 0404837.7, May 17, 2004 (Atty Docket No. 25791.10.09)
C97	Search and Examination Report to Application No. GB 0404839.3, May 14, 2004 (Atty Docket No. 25791.10.11)
C98	Search and Examination Report to Application No. GB 0404842.7, May 14, 2004 (Atty Docket No. 25791.10.12)
C99	Search and Examination Report to Application No. GB 0404845.0, May 14, 2004 (Atty Docket No. 25791.10.10)
C100	Search and Examination Report to Application No. GB 0404849.2, May 17, 2004 (Atty Docket No. 25791.10.13)
C101	Examination Report to Application No. GB 0406258.4, May 20, 2004 (Atty Docket No. 25791.58.04)
C102	Written Opinion to Application No. PCT/US01/19014; December 10, 2002 (Atty Docket No. 25791.38.02)

Sheet 4 of 4

C103	Written Opinion to Application No. PCT/US01/23815; July 25, 2002 (Atty Docket No. 25791.46.02)
C104	Written Opinion to Application No. PCT/US01/28960; December 2, 2002 (Atty Docket No. 25791.47.02)
C105	Written Opinion to Application No. PCT/US01/30256; November 11, 2002 (Atty Docket No. 25791.48.02)
C106	Written Opinion to Application No. PCT/US02/00093; April 21, 2003; (Atty Docket No. 25791.52.02)
C107	Written Opinion to Application No. PCT/US02/00677; April 17, 2003 (Atty Docket No. 25791.51.02)
C108	Written Opinion to Application No. PCT/US02/04353; April 11, 2003 (Atty Docket No. 25791.50.02)
C109	Written Opinion to Application No. PCT/US02/20256; May 9, 2003 (Atty Docket No. 25791.51.02)
C110	Written Opinion to Application No. PCT/US02/39418; June 9, 2004 (Atty Docket No. 25791.92.02)
C111	Written Opinion to Application No. PCT/US03/11765 May 11, 2004 (Atty Docket No. 25791.89.02)

Examiner Signature	/John Rivell/	Date Considered	01/27/2009
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